# AVIATION BUS MARCH 81, 1944



British Post-War Airliner: First sketch released in this country of the Miles "X." on all-metal, eight-engined design proposed by F. G. Miles, which has been submitted to the British Ministry of Aircraft Production. British Information Services reports the craft could carry 50 passengers and crew of five 3,450 miles at hour crusting speech. Wing span is 150 feet; length 110 feet. (Story on Page 7.)

# CPA Engineers Reveal Preferred Transport Types Vast simplification program planned for post-war

Vast simplification program planned for post-war period expected to effect standardization of craft; sharp reduction made in engine types used. Page 38

# February Plane Output Expected to Top 9,000 Mark All-time record, both in units and—more impor-

### Allied Air Blitz Cuts Nazi Fighter Production

Assault on Axis plants reaches whirlwind proportions, entering new phase with increasing large-scale participation by U. S. heavy bombers. Page 19

### Good Personal Plane Market Seen in Post-War Alaska New passenger and cargo aircraft also to be need-

ed to supply demands of air-enthusiastic inhabitants, CAA regional manager declares.....Page 41

### Airline Officials' Holdings of Company Stock Disclosed

### Truman Pays High Tribute to Plane Manufacturers

Committee cites "unbelievable" progress from handful of plants a few years ago to industry making 40 percent of our war material now....Page 9



# The Spring of everlasting youth



This is the spring that helps being "thind" flyes home—sink inricing subs—bless enemy planes out of the sky. Sendler in diameter than a prend! ... made of special broase alloy, it never "nets", remain its tenseen throug. Used in Westinghouse internaepets, if makes possible close calibration, and keeps that calibration uniforms permanently.

Made by a special process developed by the Westinghouse Mean Pasision, these step splinish are preceden-made to externally closs tolerance. Their sevence in held absolutely uniform throughout their manufacture. Both terror formats.

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EQUIPMENT FOR PLANE - PLANT AND PORT

THE AVIATION NEWS

# Washington Observer

THE AIR WARF—from the areast conservative in effects are permitting thereafters the fursary of private optimizers over the results of an emergency of a constraint of effective against Germany. Butther plays a part in this affective, even with our new devices which the supplement of the conservation of the

ARMAC GFFENSIVE—Instity on the main, in the mean per Europe and, as Gen Armod exagencies, the studies in German survey, and the mean per the studies and German survey, and the studies are the facilities. German fighter produces in heart wayed out. The German was been and only any and out the German survey and the studies of the studies. The German was the same of the studies of

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the war, have the managem of sufficient men, planes and equipment to carry out an arrial eftensive which will produce the results they have long attributed to concentrated and concentral are power alone.

THE BOZING WAX—loteresting in a flow when many sleenedt plants are spending millians on been, mechanised, flow-mation assembly times, is Boenge's II-11 nareally plant in Bestile Space spituation there exont that of many other plants and units are merced by resented its world final



sotably free from costly, send-permitted asseably fine mechanism and there is indication that it sight be converted at lattle expanse to the animalty of new models—or the part-war manufacture of "other things" that Booling intents is produce.

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AVIATION NEWS . Much 5, 1844



When the thermometer hits the bottom at 30,000 feet it's the extra degrees that Guiberson precision-built low loss heating equipment puts into the hearts of America's greatest bombers that helps keep flagers nimble and wits and minds alert to strike the Axis. Care



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THE PHOTOS

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AVIATION NEWS . Much 4, 1994

Washington

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PROPELARI EXPERIMENTATION—Lutie is being unit at 100 eten; but scent annualetiers are enables; tests on small controllable ginch propullers for engines down to the 113 to 200 hp. class. It is believed that the cents of preduction would naturely the advantages to be electrical at the care, unless a very steple tourely work out is will a matter of specialism, but seen engineers are splittenic and the saccours are how investment to the controllable and the saccours are how investment bearing on personal planes.

AERIAL RECONNAISSANCE—On the long Pastic freet, few is anches of the Allied forces charged with prying the Jap out of their non-



tered island bases are more vital than a physis recommunicate squadrons, as him proved repeatedly in recent days. Sweat down over exempt compents, delying the antiWashington Observe

mass firm details of contilutelies and lopozphy invaluable to intelligence offices. From the photos, measure maps are under and phototempetation respects propared which providtal informations for combat factors. Such a unique as the Nowly's firmed VD-1, based on adalaxmal. Their insuper in colored bright as and publy, with a commer but in purceil.

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FAAVA NAMAGE—The business of national absolute is not allowed by the contract of the contract

books, seeking out memor which might be applied to siteraft and then utiling back writing to size in the event a company solveds a name which they have taken as their new amounts.

AVIATION NEWS . Much 8, 1844

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Data on 8-Engined Airliner

Released by British Authorities Miles "X." 55-passenger aucrafe, powered by Rolls-Royce motors producing 14,000-hp, at 425 mph., is expected to earry pay load of 16,430 pounds; range 3,450 miles.

Borton Information Services but her no other details were made week released shetches of the Miles available products: 14,600 hp at 435 mmh at \$6,900 feet, or, on a week rete-

Values 1 - Names 22

Desposable load as set at 43,250 Fiscale Model Flores-A scale

In January, Lard Beyretensk would affilts Rolls-Royce creames of 250 mpb, and especity for 56 \$ 12-Tan Plane -- A third correspond cruse at \$20 mah, and would car-The Auro York, a cryll version of Philadelphia Probe whether the December order

Anglo-U.S. Talks On Air Policy Near After many dist remore, need totional eviction policy is about to berin Mooths ago, the Senate



Sectioned perspective turn of the Miles "X," projected British sirfture AVIATION NEWS . Much R. 1944



A magnificent accomplishment is summerzed in the figures quoted above. In only two years, the Training Command of the U.S. Army Air Porces has schooled virtually the entire aeroquiel of the world's grouper are arrow. Its residents are beyond doubt the besterriged airrest to all military history. The results of their training are apparent in extendence departs that tells of batch. ing relissions successfully completed, and of script combat scores predominantly favoring our sir arms. Here is the sure forecast of our Victory . . . for Victory

roder must be won as the skies Beecherafts are doing their part!

AVIATION NEWS . Merch 8, 1944



laterley Views of Miles "X"; Above, Icit, shows operator on right Other sketch shows colley and relat's cockret, with manipular on left and unreless requireer's station of projected each engrand girlings

Four Plants Affected understanding could be reached By Curt in Trainers Exirciald, Arrenca units and two

Printery contractors offected by Green Light-The Senate Con-

Freising Needs Met-The need One of Washington's best-kept Parability of contract termina-

> town, Stehard S. Boutelle, Fair- small track under the Margader child vice-president and general more wheel

# Martin Speeds Up

Assembly Line Helves time on final less with

the new setup, a 1 800 feet one. solid and 1,100 solid freks, seas unches late the floor of final his motor, it malls \$25 tens of the emphasis on numbers of planes. Margarders and dallies and other uses The dolling ride along a

### Truman Report Pays High Tribute bety for the infratry which has To II S. Plane Manufacturers Sinbibration - Senator Trumon

Commerce ones "cohelievable" renewes of industry from roses than 100,000 strainers a year boadful of plants a few years non-to-one now producing 40 percent of American war material.

By SCOTT HERSHEY

tiv which then included only a uled in 1986 to rendere almost Af-

tends to so unnetweed. But with-Few Bad Spots-The Committee mentions the impuries it has made. I Louds Plane Industry-"On the

In connection with naval sur-



### AWPC ENGINEERS CONFER

clockups grand the toble are John W Crasser. A E Rawroad, one-president excurrent Dougles. Wallace, Staff regresser, Lockheed, B. C. Roulton, staff. Jersen L. Streight and Roor J. Distribute. AWPC

AVIATION NEWS . Much 6, 1944

AVIATION NEWS . Navel 5, 2946

Folding Wing- The new type of man has greatly increased the part production, the Committee number of planes that can be carried by, and consequently the modified as curro airplaces. In the untrol bomber will be a land-based plene, the PSS4Y, to be built by private airlines in 1904 However, many thousands of most submissial contributions the

of successi was accomplished by C.-W. Shifts Chiefs that a substantial contribution

craft, the report gives special at- part planes. Withough naturally establishers and mentioners the In the field of curpo and transsays "the greatest credit must go

transport planes put tegether"

A series of shafts in the top perdaynes, effective insendiately,

> Succeeded by Withersana Barton H Witherspeen, who has been executive assistant to Wright. cents France in St. Leave. William ATS Chief Urges

Long Range Program Coombs links post-way aversion former to Prior Training Pro-

duties with the Curtain-Wright

Aircreft production is West Court stants mevitably is linked in

seed one of the schools has flywy ever STS,000 hours without a fa-

thought the transport congress been Turiers of the 63 orbook

Over 5,000 Planes Sent Reds in 1943 More than 3,000 of soral received

More than 3.000 American six

in 1942 and over 5,000 were for-Lee Crowley, foreign economic

firboury Timeries A-20 attack



Designed for calibrating and od-A new test stand for Curtow

The unit is designed for lestingcalibrating and adjusting all Con-

### Study Consolidation Of Army, Navy, AAF There are reperved undirectives

MOBILE TRAINING UNITS Florit and arroad event at AAP being now receive appelementary and



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vessier issuest area, two Boring Aircraft Co. deaftomen one do in one necessary for securate dressing of dampin on the passed surfaces of standby basis between new and

AVIATION NEWS . March & 1844

### WPB Emerges With Major Role In Industrial Demobilization Plan

Appendix to Barach Hancock report peveals Board's place in post-war reconversion program as that of powerful unit instead of third-rate agency depicted in original draft.

The part to be placed by the time for war and civilians in one- get the average manufacturer out Arcording to the two White-House planaers. WPB will not be PTo raide the shifting of contracts. original report. In document broad . To decide what civilian producpolicy questions, Baruch and Han- tion and employment is to be resarred as wer reeds stocken. atmost to merticen but little or no . To week with the surples edlater delimention of WESS's rate in the reconversion posture, the ages- property so as to stoculate both

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MAN war nords stacken, wartme-

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# Time-and-Half Pay

b Equipment Table-A table of accontable appears fighting occur-

nerson may will trade mye or

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### PEDERAL DIGEST

At Wright Allowed Summers of week's activities in Ohn plant About \$6,000 produc-

The Napu prior of this Martin PRM-2 Mariner set the farm boat down

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ment Division, Bendix Aviolant b Defense Plant Corp. increased its of N J , Inc ; General Metars Corp . Body Perturyl and Wilys in Burback Over-all commitment An added \$659,000 in DPC's con-

b Wer Drawfered announces

AVIATION NEWS . Metch 5, 1996



LATEST FIRE FIGHTING SUITS These two fredghters, shows on data about a Many carrier whole

takend, Tex., to amount to \$886. Piper to Emphasize Aircraft Production and lending field expension of

In addition, the Way Deot, has let contracts for \$1.505.000 cm-FORce of Civilian Defense will Corp production during the force present the Natural Security close, wiele approximately 25 %

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Hothouse Tests Air Photo Equipment Samufountly, the company in its

Testing of aircraft component in 1944 will see a higher percentage m now more or less routing, but b Private Plane Ontantonil to the Divelopment of a "hothwaw" belief of openany affinals that the constitute the major parties of the cameras to the armed services. The surtraft industry, but at the same bothsuse, or roses, is built off the time they feel that the unmediate

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Frest-Wag Aviation-Turning to

viting outlets until of late, but proh Representation... The report than starters of a group reduced al \$266 -900 resultang an a net recard to the

of serendt in our output. Virtually the shareholders as securate mic-

expansion of the business will be 1941, the correspondent extent upon an

agreement on a Valoum with a to exceed \$5,000,000 at any time \$100,000 in new building additions ing, warehouse, receiving stock-

### Douglas to Refund \$12,000,000 to U.S.

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### New 'Skin' Developed As Prop De-Icer

made of a combination of two er surface being a thus coating ning. When there is no danger of

### Controllable Pitch Prop Tested For Use on Small Plane Motors Aeropeoducts Division, General Motors, conducting experi

ments on light model attached to 450-hp, engine on trainer.

peopelier mated to a 450-ha susing

planes are obvious Pitch control Pich control gives mently re-

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obiled hydraulic proofler deagn. politery for Army firbitery, and in proved performance on any any dual rotation perceller for use on that the small Army planes would . Adaptable to Fichters-The un-



CATALINA'S IMPROVED GUN BLISTER

Georges in Consolidated Value Catalinas (PRY-5, micloarmed the Dum-

states to the center of the hub, per- spring land in turn may be conmilling the mauning of a tennon trolled by the palet to relect the

Pitch thanks is accomplished by a experts (Awarton News 1/31/44, tunify, this wail is a poston fitted b Mulphane Germing Speed - introverment of small commercial

gle-rotation propeller at purious necessary in order to magnish pure planes, from which they were de-Bell Arracoles type, because of the is actuated by centufugal force # Cost Factor-Costs would be the aborace of may occusions much bulinzed by a spring land. The main larging factor, and these

time to study commercial applica-

elator, the hydraulic fluid is some unrecoveraged in occluminate and of the price central postor, ally not unlike many of our provide, well have sharpe of accounting



CORONADO'S SIDE CLINNIUS Arrangement of the side powers' hatch in the Navy's four-engine PSY2.

they can offer a vantly approved

### United Air Lines

Adds Two Officers

• Veseran - Burkes is one of

### Aerial Survey Made Of Latin America

Inter-American avantum will

has been but by 16's and 50's with-Taskey will our research and production facilities one acered to total wer, Tomerrew, the "knew how" we're seining new will help bring you a world of sefer flight.

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and in combut Time and again it

And it cost This nevert type of

### HE'S SHOOTING HOLES IN A HOSE ... TO HELP BRING OUR FIGHTERS HOME! It's a mighty important base be's

out their boss boos ared their pleasy of hits. For this hose is the in the feel hope of planes safely back capics and its engines . . . s fink R. F. Goodrich has been making where failure dee to penctures could mean the last of plane and crew. That's why be warm his .50 calcher builten to be and by arms.

efficient bulletsteller fort best rince 1941 ... keeping absent of cocomante changing mess. Our enough fuel with a hope than

constructions were made up and around before order's efficient home was produced. And even now. B. F. Goodnich engineers continue their menuch, looking for will evener senting efficiency . . will greater perenties for our combat flyers.



Over 300 Afficance The B. F. Genetrish Co., Agreementical District. Airco. O MAKERS OF MORE THAN BO RUBBER AND SYNTHETIC RUBBER AVIATION PRODUCTS

AVIATION NEWS . March 6, 1944



### THE AIR WAR

COMMENTARY

### Nazi Plane Output Drops Sharply Under Weight of Allied Air Blitz

Assault on Axis fighter plants reaches whirlwind proportions, entering new phase with increasing large-scale participation by American heavy breabers

This is 11. Twenty-seen manths ago General Beary 18. Arrild was in London complainted insurance and the second of the Child of the Chil

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) Whirtwind of Destruction—The Albed at offernee against the log princity fighter asceraft industry

reached white he proportions defined the work of Port NAT of 100 pt. 1

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was the American offer), however, we see that American offer), however, the rest of the Story (Feb. 26). Itself for yourse and a commerce of the second of t

H. S. Strangie Air Forces-11



Fifteenth Air Force-Direct Oc-

EMERGENCY KIT: The new BCAF bondels

VIATION NEWS . Much 6 1886

with the stought forces. The Pifteenth was appounded on Nov-1, 1943, and not off to a fiving start tack on the ME-199 factory at

plent at Augsburg, the airfield and

The Riv Differ

ground in connection with ground The Pitteenth Amives-During months since that attack, activity ers

Battle for Alveraft Factories

the week of Feb. 38 to 25, howsterranean area. These underes two afforks on the ME-416 plant and (twice), the ME-418 assembly (ME-189's) in coordination with ME-109 parts factory at Klasser- Eighth Air Force British-based fort. Avotria (twire) and goory bembers, the effect on Nazi air

they jump trade accord, Erin Marrier, pt. on . They

has left its strategic pob and

In addition, the Fifteenth bagged some \$2 German planes during commanding general of the Medition was the round-the-clock stiscks on League, SAF Saturday var. round-thrucisch bombon day attack on Mamburn, July 25.

defective was demonstrated, and the

The Schweinfart and Assistant hilffort on the Luftwoffe-It : too early to gauge the effects of enine and ball-bearing plants There are certainly many many Beach, including some in occupied

estrante of 80 percent of the twineagine fighter production, \$2 percent of the single-rapus fighter

since Jan 1, appears a bit on the of \$50 to 500 for March, and of on estimated 250-393 twin-engine 246,000,000 POUNDS OF RUBBER

... coming up!

This percentit anymitation had but one objection That resons 200 audition pounds of batadieur a year, belying to lick the critical rubber shortage.

direct plant . . . 6thel up 214 arem with secretably com-

Result: In the year sheed America may have \$46,000, 000 additional pounds of subber for the planes, the tacks, the trucks, and other construct we need to These practical thinking room agreed that pay large sources on unconditional surrender from the Augknowledge, resources, and ability out of which came



AVIATION NEWS . March 6, 1994



### PERSONNEL

Arthur W. Greiny will supervise the

Joseph G. College box been remod to





Archery Way Transing Institute John

E. K. (Did.) Neckas, former Attests



William Estdermod ware according to Casego J Meso, rebred become of ill health. Littlewood's apportment

h. Ballarias resemper of the

Em J. Cowler his been associated



William F. McCrooken Jr., William P. strategies that S Hulph Cohen for-

was feenerly with Lookheed Adel



manager at LaGuardia, will return to Omahe, as stolies manager, new that Macwell has returned to New



Kerl O Leren, duel regimen of AVIATION NEWS . Much 6, 1999

Lorse Col. Robon D. Moner, USMC Corps Air States, Sents Berbyrs.

William G. Wilson becomes superintendent of traffic at the Consoli-

permittendent at Vultee Paild, Dow- triket agent in New York





### FINANCIAL

### Airline Officials' Holdings Of Own Company Stock Listed

Some of principal officers of domestic firms disclosed as controlling as much as 50 percent of vooing shares, according to days on file with CAR

Be BOOM WHEN

Officials of America's domestic stackbakiers in the companies stock, and to several came officials'

In the case of National Airlands. har with 270,000 voting shares. CAR reports show that G. T. Solver, president, held 160,494 10. 1942, while II IS Parker. In. vice-president, held 29,350 shares.

or 19.53 percent prendent, Inland Air Lines, Inc., beld 79,650 of the company's 164,-315 veting shares Oct 31, or 60 5

Carletan Patrara, provident.

b Delta Air Corn.—The uresident of Belts Ase Corn . C. E. Faulk 16.66 percent Boodenburn Benity Co. bold 11,760 abazes, or 5.93 percent. M. S. Roedenharn Is vice president of Delta Air Curpora-

Manager for Street, Sec. 97 (a) 11 (0) (1) (0) (2) Logis H. Mueller, charman of Lines, Inc., held 38,460 of the own-

pany's 251,256 voting shares Oct 1963, or 15 percent Lawrence shares, or 5 percent. The estate 21. Roberts is executor, held 62,650 shares, or 35 percent. Bakerts is a director of Continental. group of domestic airknes.

Financial Reports Fifteene Curporations, Inc., s.

profit subject to renegotiation and

Seasonal newest & Women, six, feet (a) \$5-10,-471 (10),273 Except Test Co. England Air Lines Transport Gorp. (at 10:00:43) . 1.300,435

# Veteran in Search of a Peacetime Future

PHIS vetran knows of an job to come back It was been of war necessity—built to perform a strategic occopies new in the history of sirce-h. The necessropests were an engineering disk-

legge. It had to be strong to do as heavy west. Yet it had to be light and fit to the small space sveilable. That is why even optimist doubted such a device could be built.

But here it is: The Lear Account. In jeb is operating flays, landing press, shall sees and other optioners on the power of an sirplane storage butters. New, of course, war plants are working round

the clock to make enough of these for the fighting ships of Uncle Sea. But we know that such unique decises, the midpet motors that drive them and all the \$50 Less products, most here as supermit feature

in some pencetime products. They may park your cut with the peak of a hany said post year on was no post of a baren's thought of That is why we are toking you shoul them. We want to End jobs for these able setemen.

And we went you to know that the kind of engineering thinking and production such paque that made them possible is muchile. MARKE, Papel, Co. and Good Supply, Mich. SEASCHE AT. MARCH Print, Dr. and would alpen, man advantable of See Sirk Inc. Aspelle, Chings, Street Chandral, Successed



renembation and \$3,359,200 tax of \$16,099,382 The corporation

h Haves Marsefecturing Corp. and vision for renegotiation, \$59,000 of 1942 focal carriage increased

### War Exhibit Shows Conversion Extent

Examples of widespread con-

dymer. General Meters Corp. Benister Co. bumber knoding vision. General Motors, and a wide variety of other aircraft Pearl Harbor, knew little about

### Supply Contracts Appendit supply contracts

\$47.712.092.000, the War Productean Board proorts. The approach outewary uncludes contracts for acrlers and other parts and certain Other leading states include:

after \$7 113 000 remaining for layer. Marksons \$5.500,973 000, New York: Vo. seith 15.900 shares or 18.5 ner-\$5,000,000,000; New Jersey \$1,085 ... 000. Washmarton \$1,861,903,000 added \$2,193,553 to its carried our - Maryland \$1,516,945,900; Texas \$1.599.475.000; Illinous \$1.493.503.-

### 009, and Oklahoma \$1,064,665,000 Air Associates Asserts \$7,350,995 Common rains our production

Total current nasets of Air Asable March 31 to stockholders of

> Ohio Bill to Ask Revenue, estimated at \$150,000 a verse, would be used to improve

Finisher Listed - The proof which \$15,666 represented ralary. \$1.500 director's fees, \$34,423 was render by Crow on Sect 16, 1941 share of 5.799 common The bercrard on the books, pending approval of the Salary Stabilization . Befunds-One havis for probacerred \$17.745 including \$5,746 the state department of hundren

recenting 12.9 percent of that class coming from aviation quadras and Haven B. Page, of Alternadria, users not new claiming reducts.

### 'Props' Salvaged Ar Canadian Plant

& Poundry Co. Ltd. Montreal. pellers monthly are seed for refrom nucleids throughout eastern is taken sport, examined for dam-Canadian Car & Poundry stee

# Aviation Gas Tay

size of the Ohn legislature, acment of Touchers sell refund by profit after taxes, which assessed the last half of 1942 Referrels were is subtest to acceptal of the Tyes- granted on 2,405,397 vallers, totalreturn and treasurer, was paid survey, it appears that communimotely \$150,000 annually might be > Stockholders-Largost individual available for surport construction stackholders of the company were or improvement, from this manye Gilbert Coleste, chairman of the Advicates of the tax believe addibased, with 17.445 common, rep- local revenues would be forth-

AVIATION NEWS . March 5, 1946





### When Clifford's THIN-METAL KNOW-HOW discovered THIN ALUMINUM BRAZING...

WEIGHT = 3X

By removing copper oil coolers and coolant radiators from one of their femous fachters and dromains in about your models - without neers of the U.S. Army Air Porces saved approximately 130 precious pounds.

This vital victory over wright - symbolized by 16 X futhers X annals the weight of softsaldered copper coalers and radiators) - was made possible by Clifford's discovery of the slarive method of bearing aluminum tubes

Already battle-tested on wide-speead fighting fronts. Clifford's Foother-Weights are now being english to another Army Air Forces' fighter. Here the notential weight-coving is approximately 300 pounds. Less weight, greater registance to heat and pressure, longer life - see the results when

MANAGECTURING CO.





AIRCRAFT PRODUCTION

### Plane Output During February Expected To Top 9,000 Mark

All-time record both in units and-more important-weight foreseen; heavy bomber types stressed,

out would be above the 9,000 mark. Henry Types Stressed-An indifor February unless entirely un-

basis of sireraft scheduled T P Wright, head of the Aircraft Re-

Scheduling-Most scheduling now done on a daily basis. Wright given to the industry to fill ATTATION NEWS . Move a 1944 the month before or the year be-

armed, capable of longer range and try has about roughed its peak in . Costings and Bearings Problemrenderton at the recessed Would cruft entired ever up. The West particularly on the West Count. Not Out for Recards-While the situation that in orbition to the being binft with fower manhouses



### FLYING FORTRESS OUTPUT SPURTS Production of Spring Flying Fostprones as community on the uncorrele



### McQUAY-NORRIS ALTINIZED

PISTON RINGS PISTONS ... PINS ... HARDENED AND GROUND PARTS

More and more the leading makers of sircroft motors are using McOuny-Norris precision parts. Our 34 years' experience in precision manufacture, our long and intensive work in metallurer, heat treating, clinical research and laboratory experiment, enable us to turn out the stordy, dependable parts demanded by modern aviation. Your inquiries are invited.

### PARTS FOR Photos Sines Oil Sealing Rings

Sentroberrar Rings Pietnes

Pittee Pire County common Charle Plan Machined Mannesium Ports

Culledge Medit Desert Mary Hentaned and Ground Ports

PROPELLER ASSEMBLY Machined Messasium Parts

FOURPMENT FOR MAINTENANCE OF AIRCRAFT

Piatens for Oxygen Compresser Pinten Bines for Occupes

Pins for Oxygen Commerces Pictors for Air Compressor Plas for Air Compressor

Compresser

Fisters Pinten Bines Hardened and Ground Ports

peced to belld transport for LANDING GEAR PARTS

air effentives on all frents

Burnelli Contract

Being Negotiated

Capelian Car & Foundry ex

ment. In Jamesey, 1943, for exam-

rs the projected deal, nor his Consdien Cay & Foundry announced the name of the autime confirmation could be obtained in News, Dec 20) planned by Co.

Stromberg Develops New Ice-Free Unit

Curboccur sono repected produced for use in Army believeen Statable for small ecrolene englass up to 390 hp. a new series of

In the early reautho of the year 1942, relatively few women were amployed in the industry. But in 173.653 While the number of

The new smeller curtagrature, be dewndraft or notionalal All modsis are equipped with a vacuum. Employment Service and the Se-

erating puppe and a combination

List of Ferential Activities Revised

Meapower Commission, including new equip most of America's com- many changes which have been made from tune to tires, but comtion is Production of accredit and descioned, are small barrel units on which management processes for allocating labor to the different



TRANSMITTERS TESTED AT 65 BELOW:

PRECISION WORKERS IN IRON, STEEL, ALUMINUM, BRONZE, MAGNESIUM

McQUAY-NORRIS MFG. CO. (AIRCRAFT DIVISION), ST. LOUIS, U.S.A.



### WPB Production Exposition Opened Display held in capital designed in spar labor and management to page 1996 comm.

A number of surerest and agcents parts manufacturers were represented at an exposition in Washington under sponsormup of the War Production Board, designed to posts up labor and manminents incomments for any re-

summer interwork for we pro-Gertmont, military, we againcy diplerative, indicates year of the property of the property of the property of the control of the equation, which is altered to eld graphontally the says yellsic that the property of the said by workers and management on production a production, and is exterior, are production in 14th and the part laborer resources of the production of the same production of the processing and the production of the companies represented whenever the companies are considerable and the companies of the compan

> Pechard, Welter Kreie & Co-Western Receive, Westenhouse
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> Tactical Planes
> The basis for one several
> production recognizer rote on
> suspan of section planes, as was
> posited out receively by T. P.
> Wught, bend of Americal Reoccords Control Office, we was

bombers Mr. Weight regilled in GODWE. Orghibase to collected place production. On bothed place production, which resides both flighters and hombers, also eacy platent as well. We must have a blat see a blat se



ATRIAL PHOTOGRAPHY FROM A LIBERATOR: The mean philograph, taken on one of Cassolidated Vision's Aughflying Liberates bombers, shout an arrest photographer at sorth, with factor equipment including un oxygen mank, or a plane especially equipped for the type of minimon

### Study Labor Waste In Cost-Plus Plan

ees and charges of marpo equadering.

Hearings which opened last us in a Secure investigation of co shan-faced-fee war contracts us

mention of Crystol DUI as been matther a wildmatther as wild-hazal for a whitewark, but their effect on such oilsteed bein to the amount industry bearings have progressed further a leaves been by Walthington to the was noted by Walthington and earliest wild as absonantities, and they were meetigating complicate that "he subhiervable water to that "he subhiervable with the total "he subhiervable with the under the con-pice system." — Place Guige Clind—This is not

so were intringuistic comparison as supposer and money has resulted nate the complice system. "Place Outpre Chief—This is not new compliant and in the arrant are lett, it had been ganrant are lett, it had been ganter than the compliant are letter to a deep and the comparison of parts and in reduction of manower-per-allyten-leveled. The streetty-and is traduction by Sen Pergyane (R.—

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### Ceramic Insulators

Then non-type quark plays for mescrif which funder mandates model from certains will all of the conventional man are now been conventional man are now tended. For the control of the cont



### CAVU

The fivers of the CAP have served what lists owline ribers can do, have wroten "college and multility unknowed"

scooped sales. They we could flyweight airplants through customs that seemed apposable -- and poolubly were, by At Standard of Calatornia, 100, we se bring performance

colleges for John Citeres year was account. The new avaigion facts and februara we've developed will help make couple late arabase with fix more some and species and engage, similares to chaze a week-end most to a way of being. Sunderl of California field and labricants





AVIATION NEWS . Murch 6, 1844

### Rubber Sheets Cut Plane Skin Process

Substitution of then rubber sheeting for grease on blocks of surplane skins at Glenn L. Mortes

1/38, such thick elastic "laborate!" made it difficult to frish other operations Boresso of the time and method, production immedia

"The new plan saved pendarrabber shorteen the markings and each shift and we eliminated a are doesn the work with fewer OM Method-The old carthod re-

cooling of greace After the the large sheets of metal were

AVIATION NEWS . Much 6, 1944

Boeing Scales Used was numbered and, after bonne

### Motor Sand Blast Uses Wheat Cereal

cost of cleaning engine blocks Use of a Mexican wheat cereal

ous process used, is reported from the Sacramento Air Depot Cut Costs Sharply-The process tons are now cleaned at a twelve pressure used in ordinary rand-



VEST POCKET' TRAINER

of this Southeest Assess Sight tren study and majder pedals the ter of gravity as pourble present entired errors to flush.

# To Check B-17's C.G.

Scales designed by Boeing engl-

Dragge of Gravity-In the case of

the leading edge of the wings stened and londing arrangements sty to shift is most essential Anderson explained "2f an arr

tern the point, and no one could move about mande a plane in flight revelo branath the diels. Phabt Preparation Investment - Artical

stalled when the weighing is done

### TRANSPORT

### Canadian Pacific Aides Reveal Preferred Plane Types for Future

Simplification program planned for post-war period expected to effect standardination of craft; 15 different entire types

### By SCHOLIR BANGS

plane depress of Southern Cali- absorbed into CPA. At one principal

Sarma factures, and 'The Caradi- the system's planes were newered

an Pacific System is a worldwide with 41 different types of engines

nather Parity Barbany's subsidial vision of such a pressure, extends policy Canada's "choom sastrument' of the sky is Trans-Canada

recently and indicate a community | Dispiners Bessing-Today CPA. declared "chosen instrument" senerale ser lines and doppe a bossing warties business-ten lion pounds of air mail, and 70,000 G. W. G. McCounter, reported

Place Types Studied-American remail types sense districts is the types of similares Dicking "best stated" to the post-war ex-One is a standar-environ 600 hm. expensi utility acrelane norse

appearametely 7,500 pounds spons weight. It should carry eacht pagsengers or one ton of freight 500 entes Speed will not be a vital mph will be satisfactory FTwin-Engage Medel—A second

two 800 has regions of the same make as the single-senging plane 21 will worth perhaps | 5,000 pounds event and carry twelve nauseness or 4,000 pounds of freight 700 males. By caben abouild possess 400 cubic feet of usable

transportages company, and Ca- currently reduced to 15 types. Adjustments Both feel that

AA STATION MANAGERS AT ANNUAL MEETING:

AVIATION NEWS . March 5, 7946

ap-United States are transport reenter Cenada over nine routes Fairbanks to Whote Borne and

a manny "Flying Wing"-on en-• Consumble—Way Jack Northron

When a considerable number of Air Transport Command pilots Continue Gain

fight syllabus. Each, upon gradu-Prox-War Equipment-Policeing closely the lead of United Ay-

ready has raised \$10,000,000 for 1,505,972 more than the same recents



tion movement surveys, with a

# Airline Revenues

Total for swelve months record-\$24,664,997 in preceding period-Civil Aeronautics Board figures month of 1942. For the twelve

The figure for November was November, 1942. For the year ending Nov. 16, 1943, not operating pounds to 6962. Express pound-

parts in insertely named and a Post Statistics-Late statistics on the of those for 1942, although total used Total passenger miles last year were 1.669,214,115, compared

reanth in 1642. For the year ended numerat 115,390,929 for the year to

Mail pound-order for 1962 were 72,133 396,834 last year, openpared with 42,332,045,722 in 1942, and average must lead pase from \$19.6 \$3,561,063,974 in 1942, when the average express lead was 214



Here's a Tradescript on emergencial Appolithous A gon-regenciable how slad, proportioned to wheel used an Larger models. The only retrainable perts ore the easy wheels, cable operated by a direct estate band lever . . . fast actuar, and like



would, cost and majorenasso. orders. The rese then served the important func-The light plane Amplefores That develop and C-17 Apphilippes Floats which followed its



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### AVIATION NEWS . Merch 6, 1986

and some to the nay, Ultraste production was

### Good Market for Personal Planes Seen in Alaska in Post-War Era

New passenger and cargo aircraft also to be needed to somely demands of air-ordeniums inhabitants. CAA official says

SEATTLE - American accords up to CAA safety standards, which your facturers can court on Alaska are enforced rightly. Many are ten A survey of existing equipment ability to obtain new parts. tence senses the territory's 78,660

rehabituate of tremendous enthub Wide Oasa Territory-The letri-

"All you seem to hear about uphere is 'helicoyler'. There isn't a person in Alaska, lacteding me-

Frincipal Cities-Today Alaska at

Star Airlines, the latter owning 34 acrulanes of various makes and possessing rooses to all principal

A Planes Oficalcton-With few re-

NAA Exposition and commonly with the first and

position being held at Manne-Models of present and we-

cutoe, exposition sponsors.

► Equipment—An Alaskan authorwould be recoved for maders are, believes the ideal equipment for



moderate air passenger business and fost type planes, angle or

Nesse to Fairbanks. Military granges, that unfortraths well been

AVIATION NEWS . March 6, 1946

two-engine, capable of carrying Economics of CAA farifities in oversions with protograph rive been the post-war growth of our traus- and Coastal and Continental Brit-

British Ship Firms Plan Own Airlines non-mar resultitions of con-

United shipping men, apparently

Individually, most of the comthe Seath American group, and another company is in the offing

ment. He expects the North Atlen-

companies which appropried they might operate airlines actually with their shapping activities. In

unterest in the possibilities of postway shipping-air transport coordi-

Aerial Survey Made Of Hudson Bay Area

diss Air Force, has shown that ment will be available for private. These British developments doubt, the top of the continent, the yearthat all the 32 British shapping vey was made to establish ground



NWA STARTS FLIGHT CONTROL INSTRUCTION: Daited States, an omigranical from Army Air Pages the pregress was planned some (left to mobil): Mosmuses, Office of Flying Safety, Hessignartery Army

Hareline, communical officer of AAF Seventh Fight Control Region, Section, Land, Col. R. J. Salees, R. L. Smith, NWA operations memoger, in charge of the craving program; May M V. Freden-Augus, excentive of flight control division, Wingtonrepresentation, who will direct all instruction AVIATION NEWS . Much 6, 1946 Department of Agrandons are on

\* NUMBER 4 IN A STREET, TRACING SISTEIN YEARS OF KILLSTT ROTARY WING PROGRESS \*

### Pioneering New Air Freedom

HERE at Kidler, engineers with passering made here been

But Kellett's expanding corps of en-

For sugance: In supplifying electric

G MPH to 125 MPH are processey celly to mesor, when current source Dudy (Philadelphia), Poncyrlysau



OLDEST ROTARY WING AIRCRAFT HANUFACTURING COMPANY AVIATION NEWS . Much 6, 1844



controls for serial mapping It planes They returned Sept 30

### Ports to Get New CAA Radio Units

lossifiation of equipment to be gin this spring Scamon och engineering group.

Installation is to began than

available. This is "glade much"

tury accept he duriously are the colly ones ramble new of taking der weather conditions less fevorent requerements are a 400-5001 equipment will allow a 188-fact

prospect are "mild in comparison"

### Air Freight Traffic Class Is Formed

tipes "

recenteratives and businessmen earoll for training at academy. Aprime and other transportation

ered motaded freight ourner dotant curso truffe manager of American Airlines Johnson's as-

age. Hopes are that the artest our.

ted to approach on instruments . Cargo Data Gathered-Designed to new markets Information and lyets Some of these are "bee-

> TWA Expert Cites Need for Engineers Whomer trits Dellin group of

Bryoletinger Changes Seessted by planes as large as the Mare

### Salariz FIRE RIBCRAFT PRATS meds to Your order

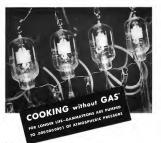
PARTS massfactured exactly to year specifications, and delivered premptly long manufactures of complete products for the expensation of the program of the complete of t

both print and with-confronters, secondary-way produces to

Your own Absorbit and apprinted by November or provided plantics. Special designs and published an imposit THE TELEOPTIC COMPANY

724 MARQUETTE

TELEOPTIC Com.



These Gammatron cubes are being submitted to an exhaust process so severe that only rubes made with tantalum elements can withmod it. Three are "cooking" at \$,000' F. romaine at this temperature from 30 to 40 minutes. At the same tune they are being pumped to create a vacuum equal to one con-hillsouth of atmospheric pressure... the best commercial vacuum obtainable.

Heintz and Kaufman Ltd. has perfected such a rigorous pumping process to peocect Gammatron tubes from filament hombardness. If many gas molecules remain in an evacuated rube, electrons traveling from the filament to the plate stoke these malecules and ionize them. These ions, being positive, dart toward the filement, hitting with such force they strip the filament of its coating. This action, termed filament bombardment, materially shortens the life of a rube. The severity of the Heintz and Kaufman exhausting process assures superior protection serunse filament bombardment, and thus adds to the operating life of all Gammarrous. ("Preshooth, but we arreinly true. Ever or concenned of

HEINTZ AND KAUFMAN LTD. SOUTH SAN FRANCISCO - CALIFORNIA S & A

Gammatron Tubes FOR VICTORY AND SECURITY BUY WAR BONDS ATIATION NEWS . March 6, 1944 arrway traffic contact, communilanding strip location and fire-

an address before the North Toxas

### Congress Approves Synthetic Gas Bill Vers \$30,000,000 for emplish

shele, farm neederst, etc. By BLAINE STUBBLEFIELD The House and Senate passed

May Ton Nam Quality-Petrobeen with the California stion feel sanifetically. They said

by Joseph C O'Milhoney, is in-

AVIATION NEWS . March 6, 1946

anelitie for the dreamstration plants: Interior Deat officials say

Non-Stop Service To Foynes Opened Expert process completion of 15 trans Atlantic Birlis in maceto-

American Famort Audites, whose These North Atlantic Subby

gailes with a 200 right creating

Asserted Export clause a would's record of TE hours for the rendo to Foynes. Blue flow 2,420 Monroe Compercial Plicht -



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and complete facilities for production. It will pay you to include Adeco fabrication in your post-war tiro.

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moterials and methods for processing and cleaning on a scientific bosis . . . speed ... certainty ... economy . . . the right moterial for every oper-

otion. \*KELITE-0

167 East 66th St. Las Augules 5, Calif

EXECUTIVE ATTENTION a Many cost of absoluters in your la-derly are than to bred, related feature former of long potents of attention By both to mean place method forting Specifies April here broadly about a definite holistica in the age of complete, right by a mater does many steps plants of No. ber im mit der predectes reledant meter von der mennen send plan og menne de von mennen send plan og men mangen bei ber på der for before

Motive Schery Scorling that are girlt server and tridings upon marked to lead a server and bedding from the party and in server and annual server areas and annual server and annual server and annual server and



40 WHELE LAND

Clarence B Coombs - Pioneer Pilot, Dies

> Clarence B Counts represe melot and holder of many records a milet on 1966 and later framed to Toronto race in 1919, in which he

Cup rect in 1922 and the Status of F Test Pilot-Counts served in the Schonestady armost in 1922 and Agreery, Ltd. from 1925 to 1931. and from 1931 to 1935 served in a

WTS Men to Choose AAF Assignments

AAF, CAA, WTS officials say there More than 4,000 men were af-

lation of the CAA-WTS patraster WHERE PRODUCTS COMPANY Schools Cloud-The final in-45000 5 0000 structor schools at Brooks Field possent of their proportions, most

been closed to WTS-trained men-

CAA-WTS graduates will be givtraining, glider training, or both-

U.S. Air Policy Studied by C. of C.

expected to be covered. Dumestic or policy is below

There is much difference be-

operant, norm a profit. The leterciace on the rail-air question. The Chamber's International

Warner Sees Gains In Avigation Aids

CAR y lee chargen relly Chicago Progress has been made in the tinuing in two related channels.

b Publical Foregasts—Political and

The political problems are not b Bespecifility-Bat, Warner told observing not intact in prace, with

competence as at present." And takes its rarse from international The CAB member anumerated \$160,000 to serve places at any the raday-appear as "the greatest

> Sees Cut in Concellations-New-

Standard Oil Plans Air Filling Stations world chain of service units.

New Flying Hazard

read:
"It is a reasonable bope for

Officers-Shepard Dadley, Inta-

tanva, Inc., organised to from Feeder Lines Urged To Aid RCAF Vers

int post war jobs for fivers.

beginning all provide will be the

tion which would provide 400 mere



# 48-PAGE PICTURE RECORD of typical jobs TIMBER STRUCTURES has done for AMERICAN INDUSTRY

"ENGINEERING IN WOOD" is a discouraged record of ... the imparators of simber in building, and the type and kind of work performed by Yunber Strangers, Inc. for industry and government before and during the war-The book is packed with photographic and word illustra-

arches, and howe framing in buildings company from small Exercise base been closen from those fielder Aviation.

psL Industrial Concernial. Specialities; with a special men, their plant architects

addressing the Yunder Structures office neurost you.

"Furthernian in Hand" a worth while addition on

their reference and work files on current and post-

war consumion planing For your free case, simply fill in and mail the

AVIATION NEWS . Merch 6, 1945

### Northwest Application Revives Problem of 4th Trans-U.S. Route

CAB hears arguments on audine's request for certificate to openie between Chicago and New York By MERLIN MICKEL

At hourings before a CAB exapplication, John A Wood of the New York Port Authority and

Seattle-Tacoma Port Nearly Ready

to be shifted to new field be Shift of all commercial surline Consistion of airport runways The new surport, 13 males south

PRANTON -II will open with a north runway of 6,100 feet, a

5,000-feet northwest runway, a 5.602-feet perfhered curryny, and a 5,000-foot west rurway Bleven AVIATION NEWS . Mech 6, 1966

Commercial operations expected

\$85,000,899 Airpert - Scalife-Tacome Airport has been under desulanguard sixtee from 1945 and Scattle, \$700,000, Port of Tacores. \$23,899; Cdy of Treams, \$15,990 places it above surface fam that occasionally halt flying at Boring

II S Canada Airmail Begun 25 Years Ago

It was just 15 years ago the month-Mar. 3, 1919-that the

Prior of the plane was Eddie \* Take-off—The actual takeoff was

way, the trans-ocean Booing Cirp-R-1 seaplane Oct 15, 1929 It was and outgoing trans-Pacific shine

b History-Borers, as founder of

### NEWS OF Four new M-GRAW-HIII

See them 10 days feed

1 AIRES AND DEDENDMANCE AND

2. FUNDAMENTALS for the

AURCRAFT MECNANIC

by the body of the

By Jean's M. Meabley, Emmire Sir Lives. But another in an administrated for the best broad-ing form is which contains at the containing and beautiful to communicate the survey and in any

3. MANUAL OF AIRCRAFT RIVETING

By March C. S.-B. Carrie, D. S. Army & Process Commander with the standard by the standard and the standard and proceedings, named in contrast classes, and proceedings, suggested to the standard community of the standard commu

4 AIR ACROPATICS ARE EASY

APPRIL TIME

### Macauley Lists Helicopter Groups

tops are engaged in either the 4e-

And Prophics Products, Eartheath, Coll., Assumption Products long 18100 Rays No. All America America Freedom, 1988, 1988

All American American Freedom, 1988

Analysis Baylot, 1988 Mandana Bird, Oak-lend Cale. to L. Dies Stem Apriles Ab Lies In-bardy hern the pilete Suga even, and other constant with high and express management the industrial leaves offening studies pre-

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Physics Edv. Lin Associate.

Electrona. Ros. of Erico Corp. Ros.

Franci Paris.

Augster Hundry Couch Co., 5005 Augster Stot. Les Augster British Avision Mirrores Orbert H. Parker Harris Co. Edinton, In. I. Schoolsen, In. I. Schoolsen, Frankris, Phys. B. Barris, I. S. Starter, J. S. Starter, J. S. Starter, J. S. Starter, J. S. Starter, S. Starter, S. Starter, S. Starter, S. Starter, S. Starter, S. Starter, S. S. Starter, S. St er Angree Economic Mercia Co., Londovilla, Ny., Buly, Wings, 10c., 2011 October 14, 2945-

A. S. A. Prin. A. Currer Cara. offeels.

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Sprinted Cery. Steph Stolymout Chill.

Strong Assembly Styl. United Adversit
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Constituted Value

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SEND THIS MIGRAW-MILL COUPON

### Gravson Dies

Death of George Hyrney the Post Office Dept. on offi-Mr. Grayson, who was 66,

the demester Death resulted in Outober, 1997, as substitute cember 2042

# nantment for many years. The HELP WANTED

PRATT & WNITNEY MECRAFT cost or coaing installations. Among our

Accommiss and mechanical analytical Denge engineers Proport employees Technical discharge Motel workers

Accombly shop Olide teri

water or ware your qualifornium to Jelos Segistone Department, or phase \$451). PRATE & WHITNEY AIRCRAFT

# SHORTLINES

January, 1943. Carpo was up 7 percent to 659,560 possade, while resuldropped 14 percent to 185.795 narrate Passequer moles were Lmosth. Mail pound miles of 50,-

routiny and high school teachers the Treasury's Miguele Man first for

trophes, twelve cash prims and so 2963 totaled 197,631,576 against 100-

ATWAYs remort and evenes appeals for 1963 were more than half specy by William & Seem fee 1945 were more than near news as large as a 1945, according to per-tal large as as 1945, according to per-like carry reports. Those gave result. This hold, gave as sendagen molecules and ordered in commencer amounts of the carry and the carry and carry as a eest higher than 1947's total of 9-

\$6.6 propert, from 4,000,000 to 7.-

Christan, is being proved to Went-

AVIATION NEWS . March 6, 1946

### WILEY BOOKS in **AERONAUTICS**



confloring body such as these listed latine. In rendy tor are demends of her same toleration and order today from the compactors AIRPLANE PROPELLER PRINCIPLES By WILBER C NELSON This book parasets a boof, proposal elementary invariant of the funds

AUBERAPI ENGINE MAINTENANCE Se E. Woodell House and Exhausts Show pur what may so sake in boading and contain on it is appropriate spinite, and it is contained in a part of the last of th

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EDITORIAL ......

### Truman Praise

PERSONAL PROPERTY Trumpan Committee report, paying for flaws in the largest aeronautical production effort the world has ever seen. There could be no It is an encouraging harbingte of America's ability to build the world's finest commercial planes after

"In any program which is so large there are cer-"The Committee has investigated and called attenlowed to detract from the record of the industry

as a whole" bungling in the nation's war effort

It was disappointing, however, that several of entical of some aspects of the aircraft program, came when they did, while the industry was still

lens before the Committee appropried there, and were making earnest efforts to cornert their misnexus impression that the Truman Committee disfore the reports were released to the press. The Yet the industry fought on, and licked the probschedules. But there is a mestion as to whether

# Mr. Littlewood and NACA

ELINATION by President Reservedt of William Littlewood, American Airlanes' vice-president in charge of engineering, to membership on the National Advisory Committee for Aeronoutics, if deserving recognition for one of the most suldiers abyord—that we Americans will be in canable airline executives The selection from one of the commercial sir-

lines to the west distinguished argumentical re- good decated. search group in America is even more a recognition of the role U. S strings have played and are erament lenders will removable that no matter

Mr. Littlewood toins a group well known and hashly respected. Dr. Jerome Humsker of Mas-Dr. Charles G. Abbot, Gen. Arnold, William A. M. Burden, Dr. Vannesay Ruth, Dr. William F. Dur-Or Francis Reichelderfer of the Weather Bureau, Dr. Edward Warner, Dr. Orvolle Wooth, and Dr. T. P. Wright. Dr. George W. Lewis is the interna-

dence in its ability to do it well

### International Cooperation

convexemy, all peopaganda emanating from England on the subject of post-war internaofficials. It is realised that the first moment we pulse our attentiseness we may find questive. ference table.

The letest unofficial peoposal, soperator in an surlines," with financing from every country in the would commuse delegates from exercishers. This Unfortunately, even government officials are da-

valed on the extent of our rightful demands in dence of the President's other meaturer ideas for sapelving our resources generously to the rest of

final plane. An equitable policy of ecoperation is nies that But on the other hand there is no evidence so far in this war-certainly not from our any more beneficent mood toward our world

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